PTO/SB/08A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Co	omplete if Known	1
Application Number	10/667.759	
Filing Date	09/22/2003	
First Named Inventor	Sean T. Crowley	
Art Unit	2811	
Examiner Name	Unknown	
Attorney Docket Number	AMKOR-022CB	1

			U.S. PATI	ENT DOCUMENTS	
Examiner Initials*		Document Number Number-Kind Code 2 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
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98		200204397	08/02/2002	JAPAN		
		0049944	06/26/2002	KOREA		
	L	2001060648	03/06/2001	JAPAN		
		556398	10/29/2000	JAPAN		
		EP1032037	08/30/2000	EU PAT. OFFICE		
		00150765	05/30/2000	JAPAN	•	
		EP098968	03/29/2000	EU PAT. OFFICE		
		9967821		PCT		
		9956316	11/04/1999	PCT		
9		EP0936671	08/18/1999	EU PAT. OFFICE		

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73)		100220154	06/18/1999	KOREA	•	
?		10256240	09/25/1998	JAPAN		
		10199934	07/31/1998	JAPAN		
		10163401	06/19/1998	JAPAN		
		EP0844665	05/27/1998	EU PAT. OFFICE		
		10022447	JAN-98	JAPAN		
		9293822	11/11/1997	JAPAN		
		9772358	11/07/1997	KOREA		
		EP0794572A2	10/09/1997	EU PAT. OFFICE		
PSF.		DE19734794A1	08/11/1997	GERMANY		

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Complete if Known

10/667,759

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Application Number

Substitute for form 1449A/PTO
INFORMATION DISCLOSURE

STATEMENT BY APPLICANT
(use as many sheets as necessary)

 Filing Date
 09/22/2003

 First Named Inventor
 Sean T. Crowley

 Art Unit
 2811

 Examiner Name
 Unknown

of 1 Attorney Docket Number AMKOR-022CB

		U.S. PATE	NT DOCUMENTS	
Examiner	Cite Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
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	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Codes "Number" - Kind Codes (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵	
'(石)		992775	04/04/1997	JAPAN			
		98205	01/10/1997	JAPAN			
	·	98206	01/10/1997	JAPAN			
_		98207	01/10/1997	JAPAN		ı	
		8306853	11/22/1996	JAPAN			
		8222682	08/30/1996	JA'PAN			
		8125066	05/17/1996	JAPAN			
		8083877	03/26/1996	JAPAN		Г	
		864634	03/08/1996	JAPAN		Г	
2		EP0720225	03/07/1996	EU PAT, OFFICE			

Examiner Signature	Date Considered	6-28-5
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Complete if Known Substitute for form 1449A/PTO 10/667.759 **Application Number** INFORMATION DISCLOSURE 09/22/2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Sean T. Crowley Art Unit <u> 2811</u> (use as many sheets as necessary) <u>Unknown</u> Examiner Name Attorney Docket Number AMKOR-022CB Sheet ٥f

			U.S. PATE	NT DOCUMENTS	
Examiner	Cito	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
		Number-Kind Code ² (if known)		Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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		FORE	IGN PATENT D	OCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (Uknown)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
39)		EP0720234	03/07/1996	EU PAT. OFFICE		
		7312405	11/28/1995	JAPAN		
		7297344	11/1995	JAPAN		
		6260532		JAPAN		
		6140563	05/20/1994	JAPAN		
		692076	04/05/1994	JAPAN		
		941979	01/03/1994	KOREA		
		5283460	10/29/1993	JAPAN		
٠. ٥		5166992	07/1993	JAPAN		
		5129473	05/25/1993	JAPAN		

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First Named Inventor Sean T. Crowley

An Unit 2811

Examiner Name Unknown

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45		4098864	09-1992	JAPAN		
		EP0459493	12/04/1991	EU PAT. OFFICE		
		3177060	08/01/1991	JAPAN		П
	<u> </u>	EP0393997		EU PAT. OFFICE		
		1251747	10/06/1989	JAPAN		
		1205544	08/1989	JAPAN		
	Ĺ.	1175250	07/11/1989	JAPAN		
		1106456	04/24/1989	JAPAN		
1		64054749	03/02/1989	JAPAN		
4		63316470	12/23/1988	JAPAN		

Examiner Signature Considered 6-28-5

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Sheet

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First Named Inventor	Sean T. Crowley
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93		63249345	10/17/1988	JAPAN		
<u> </u>		63233555	09/29/1988	JAPAN		
$-\!\!\!\perp$		63205935		JAPAN		Н
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		629639	01/17/1987	JAPAN		
		6139555	02/25/1986	JAPAN		
		60231349	11/16/1985	JAPAN	 	
		60195957	10/04/1985	JAPAN		
		60116239	0.0.14.4.17.2.2.2	JAPAN		
9		60010756	A 4 14 A 14 A	JAPAN		

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23		59227143	12/20/1984	JAPAN		-
		59208756	11/27/1984	JAPAN		
		EP5950939	03/19/1984	EU PAT. OFFICE		
		58160095	08/31/1983	JAPAN		
		5745959	03/16/1982	JAPAN		
1/10		55163868	12/20/1980	JAPAN		Ι-
9		EP5421117	06/08/1979	EU PAT. OFFICE		
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention

METHODS OF MAKING THIN INTEGRATED CIRCUIT DEVICE PACKAGES WITH IMPROVED THERMAL PERFORMANCE

Application Number:

10/667759

Confirmation Number:

1384

First Named Applicant:

Sean Crowley

Attorney Docket Number: AMKOR022CB

Art Unit:

2811

Search string:

(2596993 or 3435815 or 3734660 or 3838984 or 4054238 or 4189342 or 4258381 or 4289922 or 4301464 or 4332537 or 4417266 or 4451224 or 4530152 or 4541003 or 4646710 or 4707724 or 4727633 or 4737839 or 4756080 or 4812896 or 4862245 or 4862246 or 4907067 or 4920074 or 4935803 or 4942454 or 4987475 or 5018003 or 5029386 or 5041902 or 5057900 or 5059379 or 5065223 or 5070039 or 5087961 or 5091341 or 5096852 or 5118298 or 5151039 or 5157475 or 5157480 or 5168368 or 5172213 or 5172214 or 5175060 or 5200362 or 5200809 or 5214845 or 5216278 or 5218231 or 20010008305 or 20010014538 or 20010011654 or 20020024122

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20020140068 or 20020163015 or 20030030131

or 20030073265).pn.

US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
(A)	1	2596993	1952-05-20	S.L. GOOKIN			
	2	3435815	1969-04-01	FORCIER			
	3	3734660	1973-05-22	DAVIES ET AL.			
	4	3838984	1974-10-01	CRANE ET AL.			
M	5	4054238	1977-10-18	LLOYD ET AL.			

冽	6	4189342	1980-02-19	коск
	7	4258381	1981-03-24	INABA
	8	4289922	1981-09-15	DEVLIN
	9	4301464	1981-11-17	OTSUKI ET AL.
	10	4332537	1982-06-01	SLEPCEVIC
	11	4417266	1983-11-22	GRABBE
	12	4451224	1984-05-29	HARDING
	13	4530152	1985-07-23	ROCHE ET AL.
	14	4541003	1985-09-10	OTSUKA ET AL.
	15	4646710	1987-04-03	SCHMID ET AL.
	16	4707724	1987-11-17	SUZUKI ET AL.
	17	4727633	1988-03-01	HERRICK
	18	4737839	1988-04-12	BURT
	19	4756080	1988-07-12	THORP, JR. ET AL.
	. 20	4812896	1989-03-14	ROTHGERY ET AL.
	21	4862245	1989-08-29	PASHBY ET AL.
	22	4862246	1989-08-29	MASUDA ET AL.
	23	4907067	1990-03-06	DERRYBERRY
	24	4920074	1990-04-24	SHIMIZU ET AL.
\prod	25	4935803	1990-06-19	KALFUS ET AL.
	26	4942454	1990-07-17	MORI ET AL.
	27	4987475	1991-01-22	SCHLESINGER ET AL.
	28	5018003	1991-05-21	YASUNAGA ET AL.
	29	5029386	1991-07-09	CHAO ET AL.
\Box	30	5041902	1991-08-20	MCSHANE
	31	5057900	1991-10-15	YAMAZAKI
	32	5059379	1991-10-22	TSUTSUMI ET AL.
	33	5065223	1991-11-12	MATSUKI ET AL.
	34	5070039	1991-12-03	JOHNSON ET AL.
	35	5087961	1992-02-11	LONG ET AL.
	36	5091341	1992-02-25	ASADA ET AL.
	37	5096852	1992-03-17	HOBSON
	38	5118298	1992-06-02	MURPHY
	39	5151039	1992-09-29	MURPHY
	40	5157475	1992-10-20	YAMAGUCHI
W.	41	5157480	1992-10-20	MCSHANE ET AL.

HA	42	5168368	1992-12-01	GOW, 3RD ET AL.
	43	5172213	1992-12-15	ZIMMERMAN
	44	5172214	1992-12-15	CASTO
	45	5175060	1992-12-29	ENOMOTO ET AL.
	46	5200362	1993-04-06	LIN ET AL.
	47	5200809	1993-04-06	KWON
	48	5214845	1993-06-01	KING ET AL.
	49	5216278	1993-06-01	LIN ET AL.
図	50	5218231	1993-06-08	. KUDO

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20010008305	2001-07-19	MCLELLAN ET AL.			•
	2	20010014538	2001-08-16	KWAN ET AL.			·
	3	20010011654	2002-01-31	KIMURA		•	
	4	20020024122	2002-02-28	JUNG ET AL.		•	
	5	20020027297	2002-03-07	IKENAGA ET AL.		. •	
	6	20020140061	2002-10-03	LEE			
	7	20020140068	2002-10-03	LEE ET AL.	•		
	8	20020163015	2002-11-07	LEE ET AL.	i i		
	9	20030030131	2003-02-13	LEE ET AL.			
	10	20030073265	2003-04-17	HU ET AL.			

Examiner Name	. Date
Jan 1	6-28-5



Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

METHODS OF MAKING THIN INTEGRATED CIRCUIT DEVICE PACKAGES WITH IMPROVED THERMAL **PERFORMANCE**

Application Number:

10/667759

Confirmation Number:

1384

First Named Applicant:

Sean Crowley

Attorney Docket Number: AMKOR022CB

Art Unit:

2811

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(6395578 or 6400004 or 6410979 or 6414385 or 6420779 or 6429508 or 6437429 or 6444499 or 6448633 or 6452279 or 6464121 or 6476469 or 6476474 or 6482680 or 6498099 or 6498392 or 6507096 or 6507120 or 6534849 or 6559525

or 6566168).pn.

US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6395578	2002-05-28	SHIN ET AL.			
	2	6400004	2002-06-04	FAN ET AL.			
	3	6410979	2002-06-25	ABE			
	4	6414385	2002-07-02	HUANG ET AL.			
	5	6420779	2002-07-16	SHARMA ET AL.			•
	6	6429508	2002-08-06	GANG			·
	7	6437429	2002-08-20	SU ET AL.			
	8	6444499	2002-09-03	ŚWISS ET AL.			
	9	6448633	2002-09-10.	YEE ET AL.			
	10	6452279	2002-09-17	SHIMODA			·
	11	6464121	2002-10-15	REIJNDERS			
	12	6476469	2002-11-05	HUNG ET AL.			
	13	6476474	2002-11-05	HUNG		·	
1	14	6482680	2002-11-19	KHOR ET AL.			i

1				
93	15	6498099	2002-12-24	MCLELLAN ET AL.
	16	6498392	2002-12-24	AZUMA
	17	6507096	2003-01-14	GANG
	18	6507120	2003-01-14	LO ET AL.
	19	6534849	2003-03-18	GANG
	20	6559525	2003-05-06	HUANG
133	21	6566168	2003-05-20	GANG

Examiner Name	Date
92m	6-28-5

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

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(6197615 or 6198171 or 6201186 or 6201292 or 6204554 or 6208020 or 6208021 or 6208023 or 6211462 or 6218731 or 6222258 or 6225146 or 6229200 or 6229205 or 6239367 or 6239384 or 6242281 or 6256200 or 6258629 or 6281566 or 6281568 or 6282095 or 6285075 or 6291271 or 6291273 or 6294100 or 6294830 or 6295977 or 6297548 or 6303984 or 6303997 or 6307272 or 6309909 or 6316822 or 6316838 or 6323550 or 6326243 or 6326244 or 6326678 or 6335564 or 6337510 or 6339255 or 6348726 or 6355502 or 6369447 or 6369454 or 6373127 or 6380048

or 6384472 or 6388336).pn.

US Patent Documents

լլե	init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
Į.	囧	1	6197615	2001-03-06	SONG ET AL			
		2	6198171	2001-03-06	HUANG ET AL			
		3	6201186	2001-03-13	DANIELS ET AL			
		4	6201292	2001-03-13	YAGI ET AL			
		5	6204554	2001-03-20	EWER ET AL			
	\prod	6	6208020	2001-03-27	MINAMIO			
		7	6208021	2001-03-27	OHUCHI ET AL			
	图	8	6208023	2001-03-27	NAKAYAMA ET AL			
		!						4 1

_		•		
RAH	9	6211462	2001-04-03	CARTER, JR. ET AL
	10 ·	6218731	2001-04-17	HUANG ET AL.
	11	6222258	2001-04-24	ASANO ET AL
	12	6225146	2001-05-01	YAMAGUCHI ET AL
	13	6229200	2001-05-08	MCLELLAN ET AL
	14	6229205	2001-05-08	JEONG ET AL
	15	6239367	2001-05-29	HSUAN ET AL.
	16	6239384	2001-05-29	SMITH ET AL
	17	6242281	2001-06-05	MCLELLAN ET AL
	18	6256200	2001-07-03	LAM ET AL
	19	6258629	2001-07-10	NIONES ET AL
	20	6281566	2001-08-28	MAGNI
	21	6281568	2001-08-28	GLENN ET AL.
	. 22	6282095	2001-08-28	HOUGHTON ET AL.
	23	6285075	2001-09-04	COMBS ET AL.
	24 .	6291271	2001-09-18	LEE ET AL.
	25	6291273	2001-09-18	MIYAKI ET AL.
	26	6294100	2001-09-25	FAN ET AL.
	27	6294830	2001-09-25	FJELSTAD
	28	6295977	2001-10-02	RIPPER ET AL.
	29	6297548	2001-10-02	MODEN ET AL.
	30	6303984	2001-10-16	CORISIS
	31	6303997	2001-10-16	LEE
	32	6307272	2001-10-23	TAKAHASHI ET AL.
	33	6309909	2001-10-30	OHGIYAMA
	34	6316822	2001-11-13	VENKATESHWARAN ET AL.
	35	6316838	2001-11-13	OZAWA ET AL.
	36	6323550	2001-11-27	MARTIN ET AL.
	37	6326243	2001-12-04	SUZUYA ET AL.
	38	6326244	2001-12-04	BROOKS ET AL.
	39	6326678	2001-12-04	KARMEZOS ET AL.
	40	6335564	2002-01-01	POUR
	41	6337510	2002-01-08	CHUN-JEN ET AL.
	42	6339255	2002-01-15	SHIN
	43	6348726	2002-02-19	BAYAN ET AL.
MI.	44	6355502	2002-03-12	KANG ET AL.

130	45	6369447	2002-04-09	MORI
	46	6369454	2002-04-09	CHUNG
	47	6373127	2002-04-16	BAUDOUIN ET AL.
	48	6380048	2002-04-30	BOON ET AL.
	49	6384472	2002-05-07	HUANG
M	50	6388336	2002-05-14	VENKATESHWARAN ET AL.

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200	6-28-5



Electronic Version v18 Stylesheet Version v18.0

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First Named Applicant:

Sean Crowley

Attorney Docket Number: AMKOR022CB

Art Unit:

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Search string:

(5909053 or 5915998 or 5917242 or 5939779 or 5942794 or 5951305 or 5959356 or 5969426 or 5973388 or 5976912 or 5977613 or 5977615 or 5977630 or 5981314 or 5986333 or 5986885 or 6001671 or 6013947 or 6018189 or 6020625 or 6025640 or 6031279 or RE36613 or 6034423 or 6040626 or 6043430 or 6060768 or 6060769 or 6072228 or 6075284 or 6081029 or 6084310 or 6087715 or 6087722 or 6100594 or 6113474 or 6118174 or 6118184 or 6130115 or 6130473 or RE36907 or 6133623 or 6140154 or 6143981 or 6169329 or 6177718 or 6181002 or 6184465

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

or 6184573 or 6194777).pn.

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
图	1	5909053	1999-06-01	FUKASE ET AL.			
	2	5915998	1999-06-29	STIDHAM ET AL.			
	3	5917242	1999-06-29	BALL			
	4	5939779	1999-08-17	KIM			
	5	5942794	1999-08-24	OKUMURA ET AL.		•	
	6	5951305	1999-09-14	HABA			
	7	5959356	1999-09-28	ОН			
	8	5969426	1999-10-19	BABA ET AL.			

冽	.6.	5973388	1999-10-26	CHEW ET AL.
	10	5976912	1999-11-02	FUKUTOMI ET AL.
	11	5977613	1999-11-02	TAKATA ET AL
	12	5977615	1999-11-02	YAMAGUCHI ET AL.
	13	5977630	1999-11-02	WOODWORTH ET AL.
	14	5981314	1999-11-09	GLENN ET AL.
	15	5986333	1999-11-16	NAKAMURA
	16	5986885	1999-11-16	WYLAND
	17	6001671	1999-12-14	FJELSTAD
	18	6013947	2000-01-11	LIM
	19	6018189	2000-01-25	MIZUNO
	20	6020625	2000-02-01	QIN ET AL.
	21	6025640	2000-02-15	YAGI ET AL.
	· 22	6031279	2000-02-29	LENZ
	23	RE36613	2000-03-14	BALL
	24	6034423	2000-03-07	MOSTAFAZADEH
	25	6040626	2000-03-21	CHEAH ET AL.
	26	6043430	2000-03-28	CHUN
	27	6060768	2000-05-09	HAYASHIDA ET AL.
	28	6060769	2000-05-09	WARK
	29	6072228	2000-06-06	HINKLE ET AL.
	30	6075284	2000-06-13	CHOI ET AL.
	31	6081029	2000-06-27	YAMAGUCHI
	. 32	6084310	2000-07-04	MIZUNO ET AL.
	33	6087715	2000-07-11	SAWADA ET AL.
	34	6087722	2000-07-11	LEE ET AL.
	35	6100594	2000-08-08	FUKUI ET AL.
	36	6113474	2000-09-05	COSTANTINI ET AL.
	37	6118174	2000-09-12	KIM
	38	6118184	2000-09-12	ISHIO ET AL.
	39	6130115	2000-10-10	OKUMURA ET AL.
	40	6130473	2000-10-10	MOSTAFAZADEH ET AL.
	41	RE36907	2000-10-10	TEMPLETON, JR ET AL
	42	6133623	2000-10-17	OTSUKI ET AL.
\square	43	6140154	2000-10-31	HINKLE ET AL
图	44	6143981	2000-11-07	GLENN

100	45	6169329	2001-01-02	FARNWORTH ET AL
	46	6177718	2001-01-23	KOZONO
	47	6181002	2001-01-30	JUSO ET AL
	48	6184465	2001-02-06	CORISIS
	49	6184573	2001-02-06	PU
B	50	6194777	2001-02-27	ABBOTT ET AL

Examiner Name	Date
	6-28-5



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US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	5640047	1997-06-17	NAKASHIMA			
	2	5641997	1997-06-24	OHTA ET AL.		·	
	3	5643433	1997-07-01	FUKASE ET AL.			
	4	5644169	1997-07-01	CHUN			4.5
	5	5646831	1997-07-08	MANTEGHI			
	6	5650663	1997-07-22	PARTHASARANTHI			
	7	5661088	1997-08-26	TESSIER ET AL.			
	8	5665996	1997-09-09	WILLIAMS ET AL.			: , ,
							٠.

333				
M	9	5673479	1997-10-07	HAWTHORNE
	10	5683806	1997-11-04	SAKUMOTO ET AL.
	11	5689135	1997-11-18	BALL
	12	5696666	1997-12-09	MILES ET AL.
	13	5701034	1997-12-23	MARRS
	14	5703407	1997-12-30	HORI
	15	5710064	1998-01-20	SONG ET AL.
	16	5723899	1998-03-03	SHIN
	17	5724233	1998-03-03	HONDA ET AL.
	18	5736432	1998-04-07	MACKESSY
	19	5745984	1998-05-05	COLE, JR. ET AL.
	20	5753532	1998-05-19	SIM
	21	5753977	1998-05-19	KUSAKA ET AL.
	22	5766972	1998-06-16	TAKAHASHI ET AL.
	23	5770888	1998-06-23	SONG ET AL.
	24	5776798	1998-07-07	QUAN ET AL.
	25	5783861	1998-07-21	SON
	26	5801440	1998-09-01	CHU ET AL.
	27	5814877	1998-09-29	DIFFENDERFER ET AL.
	28	5814881	1998-09-29	ALAGARATNAM ET AL.
	29	5814883	1998-09-29	SAWAI ET AL.
	30	5814884	1998-09-29	DAVIS ET AL.
	31	5817540	1998-10-06	WARK
	32	5818105	1998-10-06	KOUDA
	33	5821457	1998-10-13	MOSLEY ET AL.
	34	5821615	1998-10-13	LEE
	35	5834830	1998-11-10	СНО
	36	5835988	1998-11-10	ISHII
\prod	37	5844306	1998-12-01	FUJITA ET AL.
	38	5856911	1999-01-05	RILEY
	39	5859471	1999-01-12	KURAISHI ET AL
	40	5866939	1999-02-02	SHIN ET AL.
	41	5871782	1999-02-16	СНОІ
	42	5874784	1999-02-23	AOKI ET AL.
	43	5877043	1999-03-02	ALCOE ET AL.
12	44	5886397	1999-03-23	EWER

IVQ	oll 45	5886398	1999-03-23	l LOWETAL I
72	45	5886398	1999-03-23	LOW ET AL.
	46	5894108	1999-04-13	MOSTAFAZADEH ET AL.
	47	5897339	1999-04-27	SONG ET AL.
	48	5900676	1999-05-04	· KWEON ET AL.
	49	5903049	1999-05-11	MORI
图	50	5903050	1999-05-11	THURAIRAJARATNAM ET AL.

Examiner Name	Date		
J2N	6-28-5		